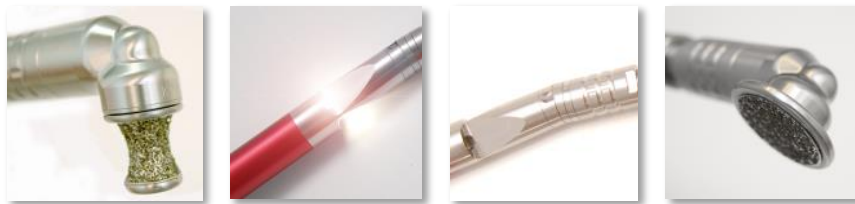


TERAFLOAT

LIGHTWEIGHT PERFECTION



Swissvet Veterinary Products 2017

For questions or comments please contact your distributor

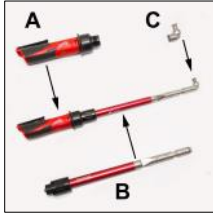
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Version 1/2017

GENERAL INFORMATION:

Please read these instructions carefully before using the Terafloat.

The Terafloat has 3 parts: A. the motor, B. the shaft and C. the head. The Terafloat is designed for equine dentistry, which is a procedure to be performed by veterinary professionals only.



Cleaning/Maintenance

Although water resistant, water should be used restrictively and please avoid water or dental debris from entering the motor. It is best to clean the instrument thoroughly after each use, before the dental debris has dried. Once dry it is very hard to remove. Only a cleaned instrument should be stored in the case.

It is especially important to keep the connections between motor/shaft, shaft/head and head/disc very clean and dry. Make sure the connections are always tightened. (areas with arrows on the pictures below)



Lubrication of the threads and the turning parts should be applied as needed, but daily maintenance is not necessary. A yearly service is recommended, please contact your distributor for details.

The carrying case is large enough to hold the instrument and all accessories. The batteries should be removed before storage to avoid the instrument from being accidentally turned on inside the case.



Safety precautions:

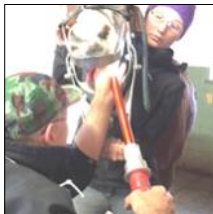
Please be aware that accidents can occur when working with horses. Only work with assistants covered under your insurance policy.



Please inform the client of the potential risks of dentistry procedures. Always use adequate sedation and a full mouth speculum for examination and treatment.

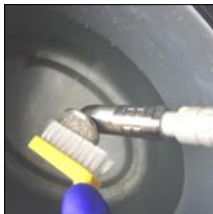


The use of personal protective items such as eye protection, masks, and gloves is recommended. Avoid loose clothing or jewelry, and protect long hair with a hat or ponytail.



Warranty

We provide a one year limited warranty for manufacturing defects. The batteries, discs and drive cable are not covered. Inappropriate use and unapproved repairs of the instrument can limit or void the warranty.



1. MOTOR

KEEP CLEAN

The motor has a serial number starting with the letter M and a three or four digit number followed by one letter.



Four small red LED lights indicate the battery charge. It is recommended to recharge the batteries once the charge is at or below 25%. Please use genuine Milwaukee batteries only. There are different batteries available for this motor: the standard small based type with 2.0Ah (1.5Ah also available) and a larger flat base battery type with 4.0Ah (3.0Ah also available).



The batteries need between 30-75 minutes to charge, depending on the type of battery and the degree of charging needed. Please unplug the charger when not in use and remove charged batteries once the charger indicator light has turned green. Please refer to the Milwaukee operator's manual for the proper handling of the batteries.

A single bay charger is used for the basic and basic plus set. The four bay charger that charges up to four batteries is available for the standard set. Most power inverter for the car can be used with a normal charger if they are rated over 100W.



The long black bar on the motor engages the variable speed trigger. The metal pin of the locking switch in front of the black bar has a three functions, depending on its position: no function, blocking function or locking function. If locked the motor runs on full speed of 5400 RPM. The locking pin is undone most easily with a flick of the thumb.

Electronic clutch

The Milwaukee motor has a built in electronic limiter to protect the instrument in case the disc suddenly stops. The drive cable and the gears of the Terafloat are sturdy and designed not to fail.

However repeated blockage of the grinding disc and burrs will eventually cause damage to the instrument and should be avoided. Make sure you use a speculum that allows sufficient opening of the mouth for your work, especially in the back of the oral cavity.



2. SHAFT

KEEP CLEAN

The shaft has a serial number starting with the letter S and a three or four digit number followed by one letter.



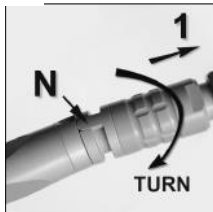
The three LED lights in the shaft turn on once the trigger of the motor has been engaged. Depending on the position of the head the light might be direct or indirect to illuminate the grinding area. Make sure you don't block the light with your second hand when using the float. The lights stay on for five seconds after the trigger is released and then turn off automatically.



A. Turnflex Mechanism

The Turnflex mechanism allows to change the shaft from a straight to a flexed position: pull the first turning sleeve (1) forward and turn it by 180 degrees until the locking notch (N) engages into the second position. **Keep this turnflex mechanism clean and free of debris and use WD40 or grease to keep it lubricated if needed.**

A



B. Rotate the Head

If the shaft is in a flexed position it is important for the grinding disc or burrs to have an appropriate position. The head can be rotated in 90 degree increments: Pull the head forward and turn the head with the second turning sleeve (2) until the desired position of the head has been reached. Keep the inner tube between the two turn cylinders clean and lubricate it with WD40 or grease if needed.

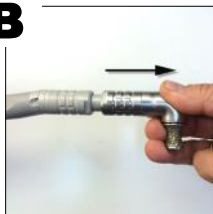


Removing the shaft

The shaft is plugged into the motor and secured with the black collet. It is important that the connection is tight and clean, lubricate the threads on the motor portion of the connection if needed.

To remove the shaft from the motor, unscrew the collet until completely free and pull the shaft from the motor. When reassembling the shaft make sure the two round marks, one on the lower black plastic portion of the shaft and the other one on the motor, are aligned (two arrows). Rotate the disc slightly to engage the drive cable into the driver of the motor if needed.

B



ALIGN MARKS

3. HEAD

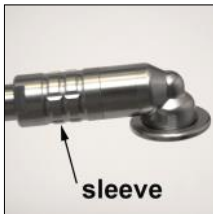
KEEP CLEAN

The head has a serial number starting with the letter K and a three or four digit number followed by one or two letters.



The head is sturdy, but it does not withstand the extreme forces of a horse biting on it, nor is this safe for the horse's teeth. The head is sealed and water resistant, but use water restrictively and do not run the instrument submersed under water.

The grinding discs and burrs have no guard but a 3mm safety boarder with no diamond coating. Make sure the oral mucosa and disks or burrs are wet, allowing the non-coated part to glide over the mucosa without causing damage. Cleaning the discs and burrs thoroughly will increase their efficacy. Clean them instantly and replace them when dull or your procedure has the increased risk to create temperatures related damage.



Changing the disc or burr

The Terafloat burrs are easily interchanged. Remove the head by unscrewing the second turning sleeve. You need to block the gear to unscrew the disc or burrs. You can use the special locking tool (3), or a screw driver or a coin. Carefully screw the plastic locking tool (3) onto the head, and avoid cross-threading the tool. Once the gears are blocked, unscrew the disc or burr. If needed, use the locking pliers (1) to unscrew the disc or burrs. Use the biothane strap (2) to protect the diamond coating when using the pliers. Make sure the threads of the new burr are clean, screw it onto the head and tighten by hand. Put the head back onto the shaft. Again make sure the threads are clean and lubricate them if needed.



Make sure the turning sleeve is completely tightened onto the head before going back to work. There must be no space between sleeve and head (double arrow below)



Grinding disc and burrs

The Terafloat offers a coarse diamond chip disc (T2), and several diamond coated burrs: the apple core burr (A2), a large cylindrical burr (Z1) and a short (F1) and a long (F2) diastema burr.

Please make sure you understand the risk of the procedure before applying a diastema between two teeth.



USING THE TERAFLOAT

KEEP CLEAN

The float can be held with one hand alone or with the second hand assisting for better guidance. Use a full mouth speculum that opens the oral cavity sufficiently to use the Terafloat safely.



Incisors and Canines: This procedure is best done at the beginning of the dental work when sedation is the strongest, using the Swissvet incisor speculum. Use the grinding disc for work on incisors and additionally the apple core burr for smoothing the canines.

Points on lower and upper arcade: Use the apple core burr: place the burr at a 45 degree angle on the lingual (lower arcade) or vestibular (upper arcade) side on the points to be floated. Start at the most rostral cheek tooth and move the shaft caudally.



Lowering the opening of the speculum on the treatment side decreases the cheek tension and increases the space between cheek and molars. It is important to float only until the points are no longer sharp and to preserve as much of the table surface as possible.

Hooks on lower and upper arcade: Hooks can be reduced with the grinding disc or with the apple core burr. Make sure the mouth is sufficiently opened using a good full mouth speculum. You may use your hand to guide the float for rostral hooks only (1/206). Flexing the shaft down helps avoiding the incisor plates of the speculum. When floating caudal hooks you may flex the shaft to the lingual side to push the tongue away, then hold the float straight or work your way from the lingual side onto the hooks.



If the space between upper and lower arcade is very tight, the use of the large cylindrical burr (Z1) or the apple core burr may be indicated.

Waves and steps Use the grinding disc or the large cylindrical burr for waves or steps. Make sure you do not create an open pulp and do not take more than two cheek tooth pairs out of occlusion at once.



Bit seat Use the apple core burr to place a bit seat, maybe guiding the instrument with your second hand for better control of the procedure. Make sure not to open the pulp with this procedure.



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